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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,482	10/31/2005	Ragnar Bendiksen	PN0299	6784
36335 GE HEALTHO	7590 11/19/200 CARE INC	EXAM	EXAMINER	
IP DEPARTMENT 101 CARNEGIE CENTER PRINCETON, NJ 08540-6231			CHENG, JACQUELINE	
			ART UNIT	PAPER NUMBER
		3768		
			MAIL DATE	DELIVERY MODE
		11/19/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/536,482 BENDIKSEN ET AL. Office Action Summary Examiner Art Unit JACQUELINE CHENG -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

 Extensions of time may be available und after SIX (6) MONTHS from the mailing of If NO period for reply is specified above, Failure to reply within the set or extender 	the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication I period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133.) In three months after the mailing date of this communication, even if timely filed, may reduce any
Status	
2a)⊠ This action is FINAL. 3)□ Since this application is i	cation(s) filed on <u>06 October 2009</u> . 2b) This action is non-final. in condition for allowance except for formal matters, prosecution as to the merits is th the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims	
5) ☐ Claim(s) is/are all 6) ☑ Claim(s) <u>1.7 and 8</u> is/are 7) ☐ Claim(s) is/are ob) is/are withdrawn from consideration. owed. rejected.
Application Papers	
Applicant may not request t Replacement drawing shee	ted to by the Examiner. is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). (t(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d) objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119	
a) All b) Some * c) 1. Certified copies of 2. Certified copies of 3. Copies of the certi application from th	e of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). None of: the priority documents have been received. the priority documents have been received in Application No fied copies of the priority documents have been received in this National Stage are International Bureau (PCT Rule 17.2(a)). Office action for a list of the certified copies not received.
A44b4(-)	
Attachment(s)	

1)		Notice
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of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (FTO/SB/08) Paper No(s)/Mail Date __

4) Interview Summary (PTO-413) Paper No(s)/Mail Date. __

5) Notice of Informal Patent Application 6) Other:

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DETAILED ACTION

Response to Arguments

Applicant amendments filed October 6, 2009 have overcome previous claim objections.
 The claim objections of claims 1 and 5-8 have been withdrawn.

2. Applicant's arguments filed October 6, 2009 have been fully considered but they are not persuasive. The examiner respectfully disagrees with the applicant that Krishnan (US 6,340,348 B1) does not read on the invention as claimed. The step of minimizing cardiac arrhythmia is only in the preamble and is a statement of intended use, so therefore as Krishnan discloses the steps claimed in the body of the claim it therefore also fulfills the intended use of the claim of having the result of minimizing cardiac arrhythmia. It is therefore believed that the rejection dated April 13, 2009 still stands and is reneated below.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out.

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the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1, 7, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnan (US 6,340,348 B1). Krishnan discloses a method and apparatus for ultrasound contrast agent imaging which can be used for perfusion of blood in cardiac tissue (abstract). Krishnan comprises trigging a series of high-energy ultrasound pulses to destroy a contrast agent which has been administered to the subject (col. 2 line 32-37). The triggering can be based upon a physiological signal such as an R-wave of the ECG of the heart (col. 6 line 27-33, col. 7 line 55-58). After the destruction of the contrast agent a series of low energy imaging pulses are then triggered at a different point of the physiological signal (col. 2 line 46-50). Krishnan does not explicitly disclose at what point of the physiological signal the series of low energy imaging pulse is triggered. Since the imaging pulse can be triggered at any particular point it would be obvious that the pulses can be triggered at the T-wave of the ECG of the heart.

Conclusion

6. All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, THIS ACTION IS MADE FINAL even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114.

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See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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- 7. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACQUELINE CHENG whose telephone number is (571)272-5596. The examiner can normally be reached on M-F 10:00-6:30.
- If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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10. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JC

/Long V Le/

Supervisory Patent Examiner, Art Unit 3768